PATENT COOPERATION TREAT

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

ee Form PCT/IPEA/416 Priority date (day/month/year) 11.07.2003							
C07J3/00, A61K31/56, A61P5/44							
nternational Preliminary Examining							
follows:							
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
ers contain an amendment that goes ted in item 4 of Box No. I and the							
Supplemental Box. b. (sent to the International Bureau only) a total of (Indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, andicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Listing (see Section 802 of the Administrative Listing (see Section 803 of the							
ily, as indicated in the Supplemental structions).							
ep and industrial applicability							
op and industrial applicability							
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
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9-8556 general Potaniem,							
itiary, k.							

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/007820

With	No. I Basis of the report regard to the language, this report is based on the international application in the language in which it was				
	i, unless otherwise indicated under this item.				
]	This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of: international search (under Rules 12.3 and 23.1(b)) publication of the international application (under Rule 12.4) international preliminary examination (under Rules 55.2 and/or 55.3)				
2. With regard to the elements* of the international application, this report is based on (replacement shee have been furnished to the receiving Office in response to an invitation under Article 14 are referred to report as "originally filed" and are not annexed to this report):					
Des	cription, Pages				
1-19	as originally filed				
Clai	ms, Numbers				
1-9	as originally filed				
⊐	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing				
 □ The amendments have resulted in the cancellation of: □ the description, pages □ the claims, Nos. □ the drawings, sheets/figs □ the sequence listing (specify): □ any table(s) related to sequence listing (specify): 					
⊐ had Sup	This report has been established as if (some of) the amendments annexed to this report and listed below not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the oplemental Box (Rule 70.2(c)). The description, pages the claims, Nos. The drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify): If item 4 applies, some or all of these sheets may be marked "superseded".				
h] lad Sup				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/007820

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial							
1.	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:						
		the entire international application,					
	⋈	claims Nos. 8					
		because:					
	×	the said international application, or the said claims Nos. 8 only regarding industrial applicability relate to the following subject matter which does not require an international preliminary examination (specify):					
		see separate sheet					
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.					
-		no international search report has been established for the said claims Nos.					
İ		the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:					
		the written form		has not been furnished			
				does not comply with the standard			
		the computer readable form		has not been furnished			
				does not comply with the standard			
i		the tables related to the nucleon not comply with the technical re	tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.				
ļ		See separate sheet for further details					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/007820

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No:

Inventive step (IS)

Yes: Claims

Claims

1-9

1-9

No: Claims

Industrial applicability (IA)

Yes: Claims

1-8

No: Claims

9

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

PCT/EP2004/007820

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claim 8 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1. Reference is made to the following documents:
 - D1: WO 02/00679 A (NOVARTIS ERFIND VERWALT GMBH; NOVARTIS AG (CH); BEATTIE DAVID (GB); C) 3 January 2002 (2002-01-03)
 - D2: GB-A-1 514 476 (GLAXO LAB LTD) 14 June 1978 (1978-06-14)
 - D3: US-A-3 856 828 (PHILLIPPS G ET AL) 24 December 1974 (1974-12-24)
 - D4: UENO H ET AL: "Synthesis and evaluation of antiinflammatory activities of a series of corticosteroid 17.alpha.-esters containing a functional group" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 34, no. 8, 1 August 1991 (1991-08-01), pages 2468-2473, XP002086576 ISSN: 0022-2623

2. Novelty

The claimed subject matter is concerned with one specific steroid compound. None of the documents of the search report disclose such compound. The claimed subject matter can be considered as novel.

3. Inventive step

Document D1, which is considered to represent the most relevant state of the art, discloses (cf. examples 14,24 and claim 1) a steroid from which the subject-matter of claim 1 differs (at least one feature) in that cyano-ester on position 17 of ring system

instead of methyl-ester. Beside this, other structural features are different (in total 3 different technical feature).

The problem to be solved by the present invention may therefore be regarded as to provide a novel steroid useful as anti-inflammatory.

None of the documents cited in the search report neither alone or combined together would have led the skilled person to this specific steroid as claimed and foresee that such compound would still exert anti-inflammatory activities.

The claimed subject matter can be considered as inventive.

Re Item VII

Certain defects in the international application

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1-D4 is not mentioned in the description, nor are these documents identified therein.

Even though these documents are cited as A category in the search report, they should be mentioned in the description because no other prior art have been cited.

Re Item VIII

Certain observations on the international application

For the assessment of the present claim 8 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.